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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/521,556	01/23/2006	Takashi Tsunooka	77670/597	2518
23838 7590 09/05/2007 KENYON & KENYON LLP			EXAMINER	
1500 K STREET N.W. SUITE 700 WASHINGTON, DC 20005		CHANG, CHING		
		ART UNIT	PAPER NUMBER	
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	,		MAIL DATE	DELIVERY MODE
			09/05/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)
	10/521,556	TSUNOOKA ET AL.
Office Action Summary	Examiner	Art Unit
•		3748
The MAILING DATE of this communication	Ching Chang	
Period for Reply		·
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory per Failure to reply within the set or extended period for reply will, by standard processes and provided by the Office later than three months after the meanned patent term adjustment. See 37 CFR 1.704(b).	B DATE OF THIS COMMUNI R 1.136(a). In no event, however, may a riod will apply and will expire SIX (6) MO atute, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status		
1) ☐ Responsive to communication(s) filed on 2: 2a) ☐ This action is FINAL . 2b) ☐ T 3) ☐ Since this application is in condition for allo closed in accordance with the practice under	This action is non-final. wance except for formal mat	
Disposition of Claims		
4) ☐ Claim(s) 1-13 is/are pending in the applicate 4a) Of the above claim(s) is/are withe 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1 and 2 is/are rejected. 7) ☐ Claim(s) 3-13 is/are objected to. 8) ☐ Claim(s) are subject to restriction are	drawn from consideration.	
Application Papers		
9) The specification is objected to by the Exam 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the cor 11) The oath or declaration is objected to by the	accepted or b) objected to the drawing(s) be held in abeya rrection is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the priority docum application from the International Bu * See the attached detailed Office action for a	nents have been received. nents have been received in a priority documents have bee reau (PCT Rule 17.2(a)).	Application No n received in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview	Summary (PTO-413)
Notice of References Cited (FTO-692) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date) Paper No	(s)/Mail Date Informal Patent Application

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DETAILED ACTION

This Office Action is in response to the amendment filed on 6/25/07.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3 Claims 1-2 are rejected under 35 U.S.C. 102(a) as being anticipated by or, in the alternative, under 35 U.S.C. 103(a) as being obvious over Kamiyama (JP '779).

Kamiyama discloses a control device of a multicylinder (1-6) internal combustion engine provided with a valve operating characteristic control means (including 6, 7, 11, 8, 9) for controlling a valve operating characteristic of at least one of an intake valve (2) and an exhaust valve (3), which estimates an intake difference of cylinders and limits a control range of the valve operating characteristic in accordance with the estimated intake difference, which limits said control range of the valve operating characteristic

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considering the engine speed and valve operating characteristic at the time of estimation of the intake difference in addition to the estimated intake difference.

4. Claims 1-2 are rejected under 35 U.S.C. 102(b) as being anticipated by or, in the alternative, under 35 U.S.C. 103(a) as being obvious over Nakamura et al. (US Patent 6,390,041).

Nakamura discloses a control device of a multicylinder internal combustion engine provided with a valve operating characteristic control means (10, 30, 31, 29, 18) for controlling a valve operating characteristic of at least one of an intake valve (12) and an exhaust valve, which estimates an intake difference of cylinders and limits a control range of the valve operating characteristic in accordance with the estimated intake difference, which limits said control range of the valve operating characteristic considering the engine speed and valve operating characteristic at the time of estimation of the intake difference in addition to the estimated intake difference (See Col. 6, line 50 through Col. 12 line 25).

Allowable Subject Matter

5. Claims 3-13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

6. Applicant's arguments filed 02/28/07 have been fully considered but they are not persuasive.

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Conclusion

7. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ching Chang whose telephone number is (571)272-4857. The examiner can normally be reached on M-Th, 7:00 AM -5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Denion can be reached on (571)272-4859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

CHING CHANG
PRIMARY EXAMINER
TECHNOLOGY CENTER 3700